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SR Lee, SD Joo, CW Lee - Mobile and Ubiquitous Systems: Networking and Services, 2005 ..., 2005 - ieeexplore.ieee.org

Page 1. An Enhanced Dynamic Framed Slotted ALOHA Algorithm for RFID Tag Identification

* Su-Ryun Lee Ajou University Department of Electrical and Computer Engineering

Suwon, Korea srlee@ajou.ac.kr Sung-Don Joo LG Electronics Network Lab. ...

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[Taxonomy and survey of RFID anti-collision protocols](#) - [► auc.dk](#) [PDF]

DH Shih, PL Sun, DC Yen, SM Huang - Computer communications, 2006 - Elsevier

Due to the limitless possibilities and low cost, Radio Frequency Identification

(RFID) systems are used in a variety of applications to uniquely identify

physical objects. The operation of RFID systems often involves a situation ...

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[Collaborative sensing in a retail store using synchronous distributed jam signalling](#) - [► teco.edu](#) [PDF]

A Krohn, T Zimmer, M Beigl, C Decker - 3rd International Conference on Pervasive Computing, 2005 - Springer

Abstract. The retail store environment is a challenging application area for

Pervasive Computing technologies. It has demanding base conditions due to the

number and complexity of the interdependent processes involved. We ...

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[Improvement to the anticollision protocol specification for 900MHz class 0 radio frequency ...](#) -

[► buffalo.edu](#) [PDF]

M Nanjundaiah, V Chaudhary - Advanced Information Networking and Applications, 2005. AINA ..., 2005 -

ieeexplore.ieee.org

This paper proposes a modification to the existing anticollision protocol put

forth in version 1.0 Protocol Specification for 900MHz Class 0 RFID Tag. The

version 1.0 specification uses a binary tree approach to singulate one RF ...

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[Anti-collision performance of Gen2 air protocol in random error communication link](#) - [► autoidlab.jp](#)

[PDF]

Y Kawakita, J Mitsugi - Applications and the Internet Workshops, 2006. SAINT ..., 2006 - ieeexplore.ieee.org

When a multitude of RFID tags are in the interrogating field, an

anti-collision technology must be used. In literatures, the reading performance

was mainly investigated on the error-free communication links between ...

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[PDF] [► A hybrid randomized protocol for RFID tag identification](#)

A Micic, A Nayak, D Simplot-Ryl, I Stojmenovic - IEEE International Workshop on Next Generation Wireless ..., 2005 - site.uottawa.ca

RFID is a technology for tracking objects that is expected to be widely adopted

in very near future. A reader device sends probes to a set of RFID tags, which

then respond to the request. A tag is recognized only when it is the only ...

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[ASAP: a MAC protocol for dense and time-constrained RFID systems](#) - [► hindawi.com](#) [PDF]

G Khandelwal, K Lee, A Yener, S Serbetli - EURASIP Journal on Wireless Communications and Networking, 2007 - hindawi.com

Hindawi Publishing Corporation EURASIP Journal on Wireless Communications and Networking Volume 2007, Article ID 18730, 13 pages doi:10.1155/2007/18730 ...

ASAP: A MAC Protocol for Dense and Time-Constrained

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[PDF] ► [An Efficient Stochastic Anti-collision Algorithm using Bit-Slot Mechanism](#)

CS Kim, KL Park, HC Kim, SD Kim - Proc. of Int. Conf. on Parallel and Distributed Processing ..., 2004 - 68.153.197.235

Page 1. An Efficient Stochastic Anti-collision Algorithm using Bit-Slot Mechanism

Chang-Soon Kim*, Kyung-Lang Park*, Hie-Cheol Kim †, and Shin-Dug Kim* *Dept.

of Computer Science, Yonsei University, Seoul, Korea † Dept. ...

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[Einführung in die RFID-Technologie](#) - ► [ethz.ch](#) [PDF]

M Lampe, C Flörkemeier, S Haller - Das Internet der Dinge—Ubiquitous Computing und RFID in der ..., 2005 - Springer

Kurzfassung. Die öffentliche Thematisierung der RFID-Technik und die Standardisierungsbemühungen des Auto-ID Centers haben dazu geführt, dass den Potenzialen der Technologie zur Verbesserung betriebswirtschaftlicher ...

Cited by 18 - [Related articles](#) - [Web Search](#) - [All 5 versions](#)

[An Improved ALOHA Algorithm for RFID Tag Identification](#)

X Huang - Lecture Notes in Computer Science, 2006 - Springer

Abstract. One of problems that we faced for Radio frequency identification (RFID) systems is that the collision between tags which lowers the efficiency of the RFID systems. One of the popular anti-collision algorithms is ALOHA- ...

Cited by 8 - [Related articles](#) - [Web Search](#) - [BL Direct](#)

[Improved anti-collision scheme for high speed identification in RFID system](#)

TW Hwang, BG Lee, YS Kim, DY Suh, JS Kim - Proc of the 1st International Conference on Innovative ..., 2007 - doi.ieeecomputersociety.org

Tag identification time is handled as an important factor because the performance of RFID system is decided by this factor dominantly. To improve this ability, many anti-collision algorithms have been applied on RFID system. ...

Cited by 6 - [Related articles](#) - [Web Search](#) - [All 4 versions](#)

[Id-binary tree stack anticollision algorithm for rfid](#)

B Feng, JT Li, JB Guo, ZH Ding - 11th IEEE Symposium on Computers and Communications, 2006. ..., 2006 - ieeexplore.ieee.org

This paper presents an efficient anticollision algorithm for the RFID tags communication conflict. The novelty of our algorithm is that we map a set of n tags into a corresponding ID- binary tree, and see the process of collision ...

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[PDF] ► [Efficient collision-resilient RFID tag identification using balanced incomplete block design code](#)

JM Seol, SW Kim - Proceedings of the Sixth IEEE International Conference on ..., 2006 - sfcc.re.kr

RFID (radio frequency identification) is a RF based identification system, where RF reader reads (and writes) data from each entity (RF tag). Upon request from reader, tags in reader's accessible RF range will respond, and if the ...

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[CITATION] [ID-binary tree stack anticollision algorithm for RFID](#)

F Bo, L Jin-Tao, G Jun-Bo, D Zhen-Hua - The 11th IEEE Symposium on Computers and Communications (ISCC ..., 2006

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[Reliability techniques for rfid-based object tracking applications](#) - ► [rice.edu](#) [PDF]

A Rahmati, L. Zhong, M Hiltunen, R Jana - Dependable Systems and Networks, 2007. DSN'07. 37th Annual ..., 2007 - ieeexplore.ieee.org

Radio Frequency Identification (RFID) technology has the potential to dramatically improve numerous industrial practices. However, it still faces many challenges, including security and reliability, which may limit its use in ...

[Cited by 4](#) - [Related articles](#) - [Web Search](#) - [All 5 versions](#)

Hybrid Tag Anti-collision Algorithms in RFID Systems

JD Shin, SS Yeo, TH Kim, SK Kim - Lecture Notes in Computer Science, 2007 - Springer

Abstract. RFID, Radio Frequency Identification, technology is a contactless automatic identification technology about which a lot of re- searches and developments are recently progressing. For this RFID tech- nology to be ...

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[PDF] ► Improving rfid system to read tags efficiently

A Sahoo, S Iyer, N Bhandari - it.iitb.ac.in

Page 1. Improving RFID System to Read Tags Efficiently Technical Report by A.

Sahoo, S. Iyer and N. Bhandari Kanwal Rekhi School of Information Technology Indian

Institute of Technology Bombay June, 2006 Page 2. Abstract ...

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Q+-Algorithm: An enhanced rfid tag collision arbitration algorithm

D Lee, K Kim, W Lee - Ubiquitous Intelligence and Computing: 4th International ..., 2007 - books.google.com

Q+-Algorithm: An Enhanced RFID Tag Collision Arbitration Algorithm* Donghwan

Lee, Kyungkyu Kim, and Wonjun Lee** Division of Computer and Communication

Engineering Korea University, Seoul, Republic of Korea wleeSkorea.ac.kr ...

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基于时隙的RFID防碰撞算法分析

刘佳, 张有光 - 电子技术应用, 2007 - cqvip.com

Communication and Network 基于时隙的RFID防碰撞算法分析刘佳,

张有光(北京航空航天大学电子信息工程学院, 北京100083) 摘要:

介绍了几种常见的基于时隙的防碰撞算法: 帧时隙ALOHA ...

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Adaptive Binary Splitting for a RFID Tag Collision Arbitration Via Multi-agent Systems

X Huang, D Tran - LECTURE NOTES IN COMPUTER SCIENCE, 2007 - Springer

Abstract. Radio Frequency Identification (RFID) has recently received much attention from various parties involved in supply chain management. In the RFID system, a reader recognizes tags through communications over a shared ...

[Cited by 2](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#)

A novel anti-collision algorithm with optimal frame size for RFID system

I Joe, J Lee - Software Engineering Research, Management & Applications, ..., 2007 - ieeexplore.ieee.org

In this paper, we propose a novel anti-collision algorithm for Generation 2 RFID system to estimate the number of tags and to use the optimal frame size.

Depending on the number of tags, there exists the optimal frame size in the ...

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A Novel Passive Tag with Asymmetric Wireless Link for RFID and WSN Applications

M Baghaei-Nejad, Z Zou, H Tenhunen, LR Zheng - IEEE International Symposium on Circuits and Systems, 2007. ..., 2007 - ieeexplore.ieee.org

Abstract -In this paper, we present a radio-powered module with asymmetric wireless link utilizing ultra wideband radio system for RFID and wireless sensor applications. Our contribution includes using two different standards in ...

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[PDF] ► [An Efficient Scheme for Multiple Access in a RFID System](#)

WT Chen, GH Lin - Proc. ICWN 2006 - ww1.ucmss.com

Abstract - In this paper, we present an anti-collision scheme in a RFID system. The scheme is based on dynamic framed ALOHA protocol developed for radio networks. In our scheme, we propose a method to estimate the number of tags ...

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[Aloha-based anti-collision algorithms used in RFID system](#) - ► 59.77.17.121 [PDF]

L Liu, S Lai - Wireless Communications, Networking and Mobile Computing, ..., 2006 - ieeexplore.ieee.org

Abstract—Collision is a familiar problem and one of the largest disadvantages in RFID system. There are always two methods to deal with the collision problems. One is the deterministic collision resolution and the other is ...

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RFID系统中反碰撞处理的排队建模与分析

余润仙, 高爱乃, 丁永生 - 计算机仿真, 2005 - cqvip.com

首页; 期刊导航; 知识社区; 学者空间; 学术机构; 专题导读; 充值中心; 论文翻译. 登录

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[PDF] ► [A Spatially Aware RFID-Enhanced Wireless Sensor Network](#)

DK Klair, KW Chin, R Raad, D Lowe - IEEE PerCom; Google PhD Forum - uow.edu.au

I. I INTRODUCTION In recent years, radio frequency identification (RFID) has gained enormous publicity, especially after both Wal-Mart and the Department of Defense mandated their respective suppliers use RFID tags in an effort to ...

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[Analysis of energy consumption for multiple object identification system with active RFID tags](#)

X Su, Y Xiao - Wireless Communications and Mobile Computing, 2008 - ieeexplore.ieee.org

Abstract— Radio frequency identification (RFID) systems are very effective for identifying objects. In multiple object identification systems with active tags, the tags are designed for extremely low-cost large-scale applications ...

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[RFID Keeper: An RFID Data Access Control Mechanism](#)

Z Zhou, D Huang - IEEE Global Telecommunications Conference, 2007. GLOBECOM'07, 2007 - ieeexplore.ieee.org

Abstract Access control for RFID tags is challenging due to the limited computational and energy capability of RFID tags. To solve this problem, we propose RFID Keeper - an RFID data access control mechanism based on RFID ...

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[Performance modeling and design of backscatter RFID systems: A statistical approach](#)

JM Govardhan - 2006 - gradworks.umi.com

Abstract: This thesis provides a statistical framework for performance modeling and design of backscatter Radio Frequency Identification (RFID) systems. The thesis also explores the uncertainties associated with certain parameters ...

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[改进ALOHA算法在RFID多目标识别中的应用](#)

陆端, 王刚, 闫述 - 微计算机信息, 2006 - cqvip.com

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散列树形搜索反碰撞算法的研究

韩磊, 张虹, 马海波 - 计算机应用, 2006 - cqvip.com

第26卷第12期2006年12月计算机应用Computer Applications Vol_26 No . 12 Dec . 2006

文章编号: 1001—9081(2006)12—3019—04 散列树形搜索反碰撞算法的研究韩磊, 张虹, 马海波 ...

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A Simulation Study Comparing the Performance of Two RFID Protocols - [► buffalo.edu](#) [PDF]

M Nanjundiah, V Chaudhary - Lecture Notes in Computer Science, 2006 - Springer

Abstract. This paper presents a comparison of version 1.0 Protocol Specification

for 900MHz Class 0 RFID Tag with that of Class-1 Generation 2 UHF RFID Protocol for Communications at 860 MHz – 960 MHz for large number of tags. ...

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Problem of dynamic change of tags location in anticollision RFID systems

P Jankowski-Mihulowicz, W Kalita, B Pawlowicz - Microelectronics Reliability, 2008 - Elsevier

Presently the necessity of building anticollision RFID systems with dynamic

location change of tags appear more often. Such solutions are used in

identification of moving cars, trains (automatic identification of vehicles ...

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[CITATION] SENSOR (RFID) NETWORKS AND COMPLEX MANUFACTURING SYSTEMS MONITORING (COMMSSENS): LABORATORY FOR RFID ...

S Bukkapainam, OK Stilwater, JM Govardhan, S ...

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Identification Algorithm in the RFID System for Known Tag Sets

研究生: 王昱晟 (Yu-Cheng Wang) 指導教授: 嚴威 (Prof. Wei Yen) 大同大學 ...

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Statistical analysis and design of RFID systems for monitoring vehicle ingress/egress in warehouse ...

JM Govardhan, STS Bukkapatnam, Y Bhamare, PK Rao - International Journal of Radio Frequency Identification ..., 2007 - Inderscience

Int. J. Radio Frequency Identification Technology and Applications, Vol. 1, No.

2, 2007 ... Statistical analysis and design of RFID systems for monitoring

vehicle ingress/egress in warehouse environments

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Reliability improvement for an RFID-based psychiatric patient localization system - [► ncku.edu.tw](#)

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CL Huang, PC Chung, MH Tsai, YK Yang, YC Hsu - Computer Communications, 2008 - Elsevier

Collaboration between Field Generators, Readers and Tags generates the required

functions in using radio frequency identification (RFID) for psychiatric patient

localization. The Field Generator continually transmits trigger signals ...

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Design of Hash-tree Anti-collision Algorithm

C Xuzhou, C Nanjing, C Changzhou - ieeexplore.ieee.org

Page 1. Design of Hash-tree Anti-collision Algorithm Hong Zhang Lei Han Yu-Lu Li Dept. of Computer Science Dept. of Computer Engineering, Jiangsu Changzhou & Technology, CUMT, Nanjing Institute of Technology, Power Supply Company, ...

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A Rahman, BHW Hadikusumo, SO Ogunlana, C ... - Management - library.ait.ac.th

A general mistrust within the contactor and subcontractor companies has identified one of the significant barriers to derive benefits from true downstream supply chain integration, can further lead to the development of ...

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RFID-based user profiling of fashion preferences: blueprint for a smart wardrobe - ► latrobe.edu.au

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S Ling, M Indrawan, SW Loke - International Journal of Internet Protocol Technology, 2007 - Inderscience

Faculty of Information Technology, Monash University, Caulfield East 3145,

Melbourne, Australia E-mail: chris.ling@infotech.monash.edu.au E-mail:

maria.indrawan@infotech.monash.edu.au *Corresponding author

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Reliable and Fast Estimation for Wireless Media RFID Systems

X Huang, D Sharma - 2007 IEEE International Conference on Automation and ..., 2007 - ieeexplore.ieee.org

Abstract - Radio Frequency Identification (RFID) has recently received much attention from various parties involved in supply chain management. It is believed that RFID can bring revolutionary changes to supply chain, ...

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[PDF] ► Efficient Dynamic Framed Slotted Anti-Collision Algorithm for RFID Systems

X Huang - naun.org

Abstract— Radio frequency identification (RFID) systems with passive tags dramatically increase the ability of an organization to acquire a vast array of data about the location and properties of any entity that can be physically ...

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An Enhanced Dynamic Framed Slotted ALOHA Anti-collision Algorithm

S Lee, C Lee - LECTURE NOTES IN COMPUTER SCIENCE, 2006 - Springer

Abstract. In RFID system, one of the problems that we must solve is the collision between tags that may occur when a reader attempts to read a number of tags simultaneously. Most of the popular anti-collision algorithms are ...

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Password Streaming for RFID Privacy

VK Wu, RH Campbell - Proceedings of the OTM Confederated International Workshops ..., 2008 - Springer

Abstract. We propose a novel privacy-protecting RFID system using password streaming. Our scheme assumes a centralized back-end system containing a database of tag passwords. A reader uses this database to broadcast ...

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[CITATION] Multi-branch query tree protocol for solving RFID tag collision problem

JC hai WANG Ke-ren - 中国邮电高校学报:英文版, 2008

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A Secure RFID Access Control Mechanism

D Huang, Z Zhou - Security in RFID and Sensor Networks, 2009 - books.google.com
11 A Secure RFID Access Control Mechanism Dijiang Huang and Zhibin Zhou CONTENTS
11.1 Introduction 237 11.2 Related Works 238 11.3 System Models 239 11.3. 1
Network Model 239 11.3. 2 Attack Model 240 11.4 User Identity ...
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[\[PDF\] ► On the Accuracy of RFID Tag Estimation Functions](#)

DK Klair, KW Chin, R Raad - Communications and Information Technologies, 2007. ISCIT'07. ..., 2007 -
cileseerx.ist.psu.edu
Abstract— Dynamic Framed Slotted Aloha (DFSA) based tag reading protocols rely
on a tag estimation function to calculate the best frame size to use for a given
tag set. An inaccurate estimate results in high identification delays and ...
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[Efficient Dynamic Framed Slotted ALOHA for RFID Passive Tags](#)

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Page 1. Efficient Dynamic Framed Slotted ALOHA for RFID Passive Tags Xu
Huang School of Information Sciences and Engineering, University of Canberra
Canberra, ACT, 2617, Australia XuL HuanRgcambrraCeduAuL ...
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[Research of Multi-access and Anti-collision Protocols in RFID Systems](#)

Z Tang, Y He - 2007 IEEE International Workshop on Anti-counterfeiting, ..., 2007 - ieeexplore.ieee.org
Abstract: Due to the limitless possibilities and low cost, Radio Frequency
Identification (RFID) systems have emerged as an affordable solution for object
identification. They are a cheap and error proof alternative to traditional ...
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[Collision-Resilient Multi-state Query Tree Protocol for Fast RFID Tag Identification](#)

J Seol, S Kim - Lecture Notes in Computer Science, 2007 - Springer
Y. Wang, Y. Cheung, and H. Liu (Eds.): CIS 2006, LNAI 4456, pp. 733–742, 2007.
© Springer-Verlag Berlin Heidelberg 2007 ... Collision-Resilient Multi-state
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[Robust and Dynamic Bin Slotted Anti-Collision Algorithms in RFID System](#)

JS Choi, H Lee, DW Engels, R Elmasri - 2008 IEEE International Conference on RFID, 2008 - ieeexplore.ieee.org
Abstract—In this paper, we present the Dynamic Bin Slotted memoryless
anti-collision algorithm (DBS) and the Robust Dynamic Bin Slotted memoryless
anti-collision algorithm (RDBS) (which is a countermeasure to the strong ...
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[Study for Anti-collision of Radio Frequency Identification System - ► \[ncku.edu.tw\]\(http://ncku.edu.tw\) \[PDF\]](#)

GH Lin - 2006 - ethe sys.lib.ncku.edu.tw
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Abstract—This paper introduces a methodology for the analysis of energy ...

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An Anti-collision Method for Fast Recognition of Multiple RFID Tags

TW Hwang, BG Lee, YS Kim, H Yang, JG Yook - Optical Internet and Next Generation Network, 2006. COIN- ..., 2006 - ieeexplore.ieee.org

Abstract ALOHA based anti-collision algorithms are simple and they have superior anti-collision ability. But, it has disadvantage that the identification performance grows worse. The proposed method is the effective tag ...

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Data Integrity in RFID Systems

W Su, N Alchazidis, TT Ha - IEEE Military Communications Conference, 2007. MILCOM 2007, 2007 - ieeexplore.ieee.org

Abstract One of the main problems that affect the data integrity of passive RFID systems is the collision between the tags. A popular anticollision algorithm which dominates the standards in HF and UHF passive RFID systems is Framed ...

[Related articles](#) - [Web Search](#)

Permissible Link Quality for RFID Anti-Collision in a Practical Environment

Y Kawakita, O Nakamura, J Murai - IEICE TRANSACTION COMMUNICATIONS E SERIES B, 2008 - IEICE

SUMMARY UHF radio frequency identification (RFID) has gathered significant interest in the field of long-distance automatic identification applications.

Since UHF RFID shares the frequency band with other RFID and/or other ...

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Intelligent Query Tree (IQT) Protocol to Improve RFID Tag Read Efficiency - [▶ iitb.ac.in](#) [PDF]

N Bhandari, A Sahoo, S Iyer - Information Technology, 2006. ICIT'06. 9th International ..., 2006 - ieeexplore.ieee.org

Abstract Radio Frequency Identification (RFID) is slated to become a standard for tagging various products. As more and more products become RFID enabled, fast tag identification mechanisms will become important. Various tag ...

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Q-Algorithm: An Enhanced RFID Tag Collision Arbitration Algorithm ★ - [▶ korea.ac.kr](#) [PDF]

D Lee, K Kim, W Lee - Springer

Abstract. Emerging applications of RFID require high efficiency of tag identification. Since passive tags have dumb functionality, the efficiency of tag identification in RFID system relies on the performance of the ...

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N Bhandari - 2006 - cse.iitb.ac.in

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W Yen - 2006 - 140.134.132.124

Abstract-RFID technology has recently attracted renewed interest due to the

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X Wang, GH Xie, Z Qi, L Ming - Digital Media and its Application in Museum & Heritages, ..., 2007 - ieeexplore.ieee.org

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JM Seol, SW Kim - Lecture Notes In Computer Science, 2008 - Springer

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2008. © Springer-Verlag Berlin Heidelberg 2008 ... Collision-Resilient Symbol Based Extension of Query ... Tree Protocol for Fast RFID Tag Identification

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LC Wang, HC Liu - Wireless Communication Systems, 2006. ISWCS'06. 3rd ..., 2006 - ieeexplore.ieee.org

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V Sarangan, MR Devarapalli, S Radhakrishnan - Computer Networks, 2008 - Elsevier

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D Lee, O Bang, S Im, H Lee - Wireless Conference, 2008. EW 2008. 14th European, 2008 - ieeexplore.ieee.org

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在对现有ALOHA算法分析的基础上提出一种改进的动态帧时隙ALOHA算法.算法根据实时估计的读写器附近的标签数量动态调整帧长,使系统工作在最大吞吐量下,从而缩短标签读取时间.仿真结果表明,该算法在标签数量大于500时,相比其他ALOHA算法在吞吐量上有近100%的提高 ...

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摘要 在RFID 网络通信中, 当多个标签同时回应阅读器的查询时, 如果没有相应的防冲突机制, 会导致标签到阅读器的 ...

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